## **Claims**

## 1. A compound of formula (I)

$$\begin{array}{c|c}
R^1 & R^2 \\
\hline
A & N & R^3 \\
\hline
(I)
\end{array}$$

wherein:

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A represents a group of formula (a) or (b) or (c):

R<sup>1</sup> and R<sup>2</sup> independently represent H, C1 to 8 alkyl, C2 to 8 alkenyl, C2 to 8 alkynyl or C3 to 7 saturated or partially unsaturated cycloalkyl; the latter four groups being optionally further substituted by one or more groups selected independently from OH, C1 to 6 alkoxy, CH<sub>2</sub>OR<sup>4</sup>, NR<sup>5</sup>R<sup>6</sup>, CO<sub>2</sub>R<sup>7</sup> and CONR<sup>8</sup>R<sup>9</sup>;

R<sup>3</sup> represents C1 to 6 alkyl, C2 to 6 alkenyl, C2 to 6 alkynyl or C3 to 7 saturated or partially unsaturated cycloalkyl; said alkyl, alkenyl or alkynyl chain optionally including a O, NR<sup>10</sup> or S atom in the chain; said alkyl, alkenyl, alkynyl or cycloalkyl group being optionally substituted by phenyl or a 5 or 6 membered heteroaromatic ring containing 1 to

3 heteroatoms selected independently from O, S and N; said phenyl or heteroaromatic ring being optionally further substituted by one or more groups selected independently from halogen, C1 to 4 alkyl, OH, C1 to 4 alkoxy, CN, CO2R<sup>11</sup>, NR<sup>12</sup>R<sup>13</sup>, CONR<sup>14</sup>R<sup>15</sup>, SO<sub>2</sub>R<sup>16</sup>, NR<sup>17</sup>SO<sub>2</sub>R<sup>18</sup> and SO<sub>2</sub>NR<sup>19</sup>R<sup>20</sup>;

X represents O or S(O);

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R<sup>21</sup> represents H, CH<sub>2</sub>OR<sup>24</sup>, CH<sub>2</sub>NR<sup>24</sup>R<sup>25</sup>, CO<sub>2</sub>R<sup>24</sup> or CONR<sup>24</sup>R<sup>25</sup>;

no R<sup>22</sup> and R<sup>23</sup> independently represent H, C1 to 6 alkyl, C2 to 6 alkenyl or C3 to 7 saturated or partially unsaturated cycloalkyl; said alkyl, alkenyl or cycloalkyl group being optionally substituted by OR<sup>24</sup>, NR<sup>24</sup>R<sup>25</sup>, CO<sub>2</sub>R<sup>24</sup> or CONR<sup>24</sup>R<sup>25</sup>; or the group –NR<sup>22</sup>R<sup>23</sup> together represents a 3 to 7 membered saturated azacyclic ring optionally incorporating one further heteroatom selected from O, S(O)<sub>n</sub> and NR<sup>26</sup>; and optionally substituted by OR<sup>24</sup>, NR<sup>24</sup>R<sup>25</sup>, CO<sub>2</sub>R<sup>24</sup> or CONR<sup>24</sup>R<sup>25</sup>;

n represents an integer 0, 1 or 2;

 $R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12}, R^{13}, R^{14}, R^{15}, R^{16}, R^{17}, R^{18}, R^{19}, R^{20}, R^{24}, R^{25}$ and  $R^{26}$  independently represent H or C1 to 6 alkyl;

and pharmaceutically acceptable salts thereof.

- A compound according to Claim 1 wherein R<sup>1</sup> represents H or CH<sub>3</sub>.
- 3. A compound according to Claim 1 or Claim 2 wherein R<sup>2</sup> represents C1 to 8 alkyl substituted by OH or C3 to 7 cycloalkyl substituted by OH or CH<sub>2</sub>OR<sup>4</sup>.

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- 4. A compound according to any one of Claims 1 to 3 wherein R3 represents C1 to 2 alkyl substituted by phenyl; said phenyl being optionally substituted by halogen, C1 to 6 alkoxy or CN.
- 5. A compound of formula (I), according to any one of Claims 1 to 4, or a pharmaceutically acceptable salt thereof, for use as a medicament.
  - 6. A pharmaceutical formulation comprising a compound of formula (I), as defined in any one of Claims 1 to 4, or a pharmaceutically acceptable salt thereof, optionally in admixture with a pharmaceutically acceptable diluent or carrier.
  - 7. A method of treating, or reducing the risk of, a human disease or condition in which antagonism of the CX<sub>3</sub>CR1 receptor is beneficial which comprises administering to a person suffering from or susceptible to such a disease or condition, a therapeutically effective amount of a compound of formula (I), as defined in any one of Claims 1 to 4, or a pharmaceutically acceptable salt thereof.
  - 8. The use of a compound of formula (I) as defined in any one of Claims 1 to 4, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for the treatment or prophylaxis of human diseases or conditions in which antagonism of the CX<sub>3</sub>CR1 receptor is beneficial.
  - 9. The use of a compound of formula (I) as defined in any one of Claims 1 to 4, or a pharmaceutically acceptable salt thereof, in the manufacture of a medicament for the treatment or prophylaxis of neurodegenerative disorders, demyelinating disease, atherosclerosis or pain.
  - 10. A process for the preparation of a compound of formula (I), as defined in any one of Claims 1 to 4, or a pharmaceutically acceptable salt thereof, wherein the process comprises:
  - (a) when X in formula (I) represents O, reaction of a compound of formula (II)

$$\begin{array}{c|c}
R^1 & R^2 \\
\hline
A & N \\
\hline
N & S(O)_2 - R^3
\end{array}$$

(II)

wherein A, R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are as defined in Claim 1; with a compound of formula (III)

R<sup>3</sup>-----OH

(III)

wherein R<sup>3</sup> is as defined in Claim 1 and is independent of the R<sup>3</sup> group in formula (II); or

(b) when X in formula (I) represents S(O), oxidation of a compound of formula (IV)

$$R^1$$
 $N$ 
 $R^2$ 
 $N$ 
 $S-R^3$ 

(IV)

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wherein A, R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are as defined in Claim 1; with one equivalent of an oxidising agent;

and where necessary converting the resultant compound of formula (I), or another salt thereof, into a pharmaceutically acceptable salt thereof; or converting the resultant compound of formula (I) into a further compound of formula (I); and where desired converting the resultant compound of formula (I) into an optical isomer thereof.